

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An anisotropic conductive connector device comprising:

an anisotropic conductive film provided with a plurality of conducting path forming portions extended in a direction of a thickness in a state in which they are insulated from each other through an insulating portion; and

a sheet-like connector in which an insulating sheet is provided with a plurality of electrode structures extended in a direction of a thickness thereof,

wherein the sheet-like connector is provided integrally on the anisotropic conductive film in a state in which each of the electrode structures is positioned on each of the conducting path forming portions of the anisotropic conductive film,

the sheet-like connector is provided with a through hole penetrating through both sides of the insulating sheet and the electrode structure is provided in the through hole,

the electrode structure of the sheet-like connector includes

a surface electrode portion exposed from a surface of the insulating sheet,

a back electrode portion exposed from a back face of the insulating sheet, and

a short circuit portion extended in a direction of a thickness of the insulating

sheet,

the surface electrode portion and the back electrode portion are coupled integrally through the short circuit portion,

the insulating portion of the anisotropic conductive film is provided with a protruded portion for coupling which is protruded from a surface thereof, and

the protruded portion for coupling in the anisotropic conductive film is inserted in the through hole for coupling in the sheet-like connector.

Claims 2-4 (Cancelled).

Claim 5 (Currently Amended): An anisotropic conductive connector device comprising:

an anisotropic conductive film provided with a plurality of conducting path forming portions extended in a direction of a thickness in a state in which they are insulated from each other through an insulating portion; and

a sheet-like connector in which an insulating sheet is provided with a plurality of electrode structures extended in a direction of a thickness thereof,

wherein the sheet-like connector is integrated on the anisotropic conductive film in a state in which each of the electrode structures is positioned on each of the conducting path forming portions of the anisotropic conductive film, and

the sheet-like connector is provided with a void communicating with both sides of the insulating sheet and the electrode structure is provided in the void.

Claim 6 (Cancelled).

Claim 7 (Original): The anisotropic conductive connector device according to claim 6, wherein the insulating sheet of the sheet-like connector is formed by a mesh, a nonwoven fabric or a porous sheet.

Claim 8 (Previously Presented): The anisotropic conductive connector device according to claim 1, wherein the anisotropic conductive film is formed by an insulating elastically polymeric substance, and

the conducting path forming portion contains a conductive particle exhibiting a magnetism.

Claim 9 (Previously Presented): The anisotropic conductive connector device according to claim 1, wherein a supporting body for supporting a peripheral edge portion of the anisotropic conductive film is provided.

Claim 10 (Previously Presented): The anisotropic conductive connector device according to claim 1, which is provided between a circuit device to be an inspecting object and a circuit board for an inspection and serves to carry out an electrical connection of an electrode to be inspected in the circuit device and an inspecting electrode of the circuit board, wherein the sheet-like connector is disposed on one surface side placed in contact with the circuit device to be the inspecting object.

Claim 11 (Original): The anisotropic conductive connector device according to claim 10, wherein the anisotropic conductive film is provided with the conducting path forming portions which are not electrically connected to the electrode to be inspected, in addition to the conducting path forming portions which is electrically connected to the electrode to be inspected in the circuit device to be the inspecting object.

Claim 12 (Previously Presented): The anisotropic conductive connector device according to claim 10, wherein the conducting path forming portions are disposed at a constant pitch.

Claim 13 (Withdrawn): A method of manufacturing the anisotropic conductive connector device, comprising the steps of:

preparing a metal mold for molding an anisotropic conductive film in which a molding space is formed by a pair of molds;

forming a molding material layer constituted by a molding material for an anisotropic conductive film containing a conductive particle exhibiting a magnetism in a liquid polymeric substance forming material to be an elastically polymeric substance by curing in the metal mold and disposing the sheet-like connector on the molding material layer; and

then applying a magnetic field having an intensity distribution in a direction of a thickness of the molding material layer and carrying out a curing treatment over the molding material layer,

the anisotropic conductive connector device having the sheet-like connector provided integrally on the anisotropic conductive film being thus obtained.

Claim 14 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 13, wherein, by using, as the insulating sheet, a sheet-like connector provided with a through hole penetrating through both sides of the insulating sheet,

a molding material layer is formed in order to fill the through hole of the insulating sheet with a molding material for an anisotropic conductive film.

Claim 15 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 13, wherein, by using, as the insulating sheet, the sheet-like connector having a through hole for coupling formed on the insulating sheet,

a molding material layer is formed in order to fill the through hole for coupling in the sheet-like connector with a molding material for an anisotropic conductive film.

Claim 16 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 13, further comprising the sheet-like connector forming steps of:

forming a through hole penetrating through both sides of the insulating sheet on the insulating sheet in accordance with a pattern corresponding to a pattern of an electrode structure to be formed by a laser processing method or a dry etching method, and

filling the pattern hole with an electrode structure material by a plating method, thereby forming the sheet-like connector in which the insulating sheet is provided with a plurality of electrode structures extended in a direction of a thickness thereof.

Claim 17 (Withdrawn): A method of manufacturing the anisotropic conductive connector device, comprising the steps of:

preparing a metal mold for molding an anisotropic conductive film in which a molding space is formed by a pair of molds;

forming a molding material layer constituted by a molding material for an anisotropic conductive film, in which a conductive particle exhibiting a magnetism in a liquid polymeric substance forming material to be an elastically polymeric substance by curing, in the metal mold, and disposing the sheet-like connector on the molding material layer; and

then applying a magnetic field having an intensity distribution in a direction of a thickness of the molding material layer and carrying out a curing treatment over the molding material layer,

the anisotropic conductive connector device having the sheet-like connector integrated on the anisotropic conductive film being thus obtained.

Claim 18 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 17, wherein, by using, as the insulating sheet, a sheet provided with a void communicating with both sides of the insulating sheet,

a molding material layer is formed in order to fill the void of the insulating sheet with a molding material for an anisotropic conductive film.

Claim 19 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 18, wherein the insulating sheet of the sheet-like connector is formed by a mesh, a nonwoven fabric or a porous sheet.

Claim 20 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 17, further comprising the sheet-like connector forming steps of:

applying a resist to both sides of the insulating sheet to form a resist layer;

peeling the resist layer in accordance with a pattern corresponding to a pattern of an electrode structure to be formed, thereby forming a plurality of pattern holes on the resist layer; and

filling the pattern hole with an electrode structure material and then peeling the resist layer, thereby forming the sheet-like connector in which the insulating sheet is provided with a plurality of electrode structures extended in a direction of a thickness thereof.

Claim 21 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 17, wherein a protective film is disposed between a molding surface of one of molds in the metal mold and the sheet-like connector.

Claim 22 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 13, wherein a supporting body protruded from a molding space is disposed between the pair of metal molds and the molding material layer is subjected to a curing treatment so that an anisotropic conductive connector device provided with a supporting body for supporting a peripheral edge portion of the anisotropic conductive film is obtained.

Claim 23 (Withdrawn): The method of manufacturing the anisotropic conductive connector device according to claim 22,

wherein a spacer is provided between the pair of metal molds and the supporting body to form the molding space and

the molding material layer is subjected to curing treatment so that an anisotropic conductive connector device, which is provided with the supporting body for supporting a peripheral edge portion of the anisotropic conductive film, is obtained.

Claim 24 (Previously Presented): An apparatus for inspecting a circuit device comprising:

a circuit board for an inspection which has an electrode for an inspection disposed corresponding to an electrode to be inspected in a circuit device to be an inspecting object; and

the anisotropic conductive connector device according to claim 1 which is disposed on the circuit board for an inspection.

IN THE DRAWINGS

The attached sheet of drawings includes changes to Fig. 6. This sheet, which includes Fig. 6, replaces the original sheet including Fig. 6.

Attachment: Replacement Sheet